

# THE TECH

VOL. XXVIII. No. 65

BOSTON, MASS., MONDAY, APRIL 5, 1909

PRICE THREE CENTS

## SHOW REHEARSALS IN FULL SWING

**First Rehearsal of Cast  
and Chorus Together  
Last Saturday**

### MANY NEW PRINCIPALS

**Poster Design Has Been Placed  
On Postals Which Will be  
On Sale Wednesday**

Full of laughs and snappy from start to finish was the first rehearsal of cast and chorus together of the entire Show held Saturday in the union. The men have been drilled hard and have been practicing little bits of dialogue and separate dances, and the effects when they tried the whole together Saturday was surprising. Malcom, the author has added many bright lines to the piece, which was already full of fun, and the chorus enjoyed it in a way which bids well for its reception by an audience.

The music this year is better than usual, and the Tech Show has at last got some real singers. Joseph L. Champagne, a freshman, has a good baritone voice and will make good in some songs of his own composition. One particularly effective number of his is "My Love for You", which comes in the first act in which he sings with Faunce, Jacobs, and Campbell. Faunce has a good voice which goes well with Champagne's, and the quartet is a piece of close harmony such as the Show has not had for some years. There are many topical numbers in the piece, and Ray Allen is as good ever in these songs. He sings as he did three years ago as Alex., the Grind, when he made such a hit in his duet with Bill Adams. He can certainly get the full value out of a lyric, and all his lines tell.

The question is often raised as to who really creates a part, the author or the actor, but there can be no question who created the part of Grimm, played by the actor-author Malcom. Malcom is even better than he was as the Uncle last year, and the way he commands his secretary, Allen, who is some feet taller than he, is mirth-provoking in the extreme. Hooper has a pretty big part, in one sense of the word, and his six feet five can well fill it. As the town crier, he can yell "Hear Ye" in a way which would wake up anyone, and he isn't at all afraid of using his vocal powers. He has a song in the first act which should be one of the hits. James I. Finnie shows that his four years' connection with the Show has certainly done something for him. Everyone who saw "Over the Garden Wall" last year will remember his portrayal of the cabman, and the fun which he got out of the numbers in which he appeared, and this year he has a part which fits him admirably. He has the part of the principal comedian with Grimm, and is a rattling mate for the latter. The author has introduced several dialogues between these two, and in one or two places has a dialogue "ensemble" which brought a laugh to the stern face of the fierce Indians. Edgar I. Williams 1909, of architectural fame, has a part which is inconspicuous, but well taken. He has a number with White, Finnie, and Catching which promises well. The lyric to this song by Elliot Q. Adams is particularly good, and has many topical encores, some of them about Smith College being the best verses in the piece.

It may not be polite to leave the ladies until the last, but it is certainly not because of any inferiority on their part. There is no need to say anything about Pelden, who has a reputation earned in many performances. Jacobs is better than he was last year, which is saying a great deal, and in Arthur C. 1912 the Show has found a man for leading lady in future productions.

(Continued on page 4.)

## NEW INSTRUMENT OF GREAT VALUE

**A Unique Addition to the  
Equipment of the  
Institute**

### SCLEROSCOPE BOUGHT

**Hardness Measuring Instrument  
Placed in the Mechanical  
Engineering Lab.**

One of the recent additions to the equipment of the Mechanical Engineering Laboratory of the Institute is a scleroscope to measure the hardness of metals, machine parts, and tools.

Instruments of precision for nearly all kinds of measurements except hardness have been perfected, but the methods of testing hardness have been crude and expensive. In fact, there has been no very reliable or simple method of determining the degree of hardness of steel. The scleroscope which is applicable to laboratory and shop, determines the hardness of metals accurately and economically.

Applied to the arts, this instrument enjoys a field quite unique. It will measure the slightest variation in hardened steel, which is a most important factor, as well as the difference in hardness between lead, brass, compositions, alloy steel, tool steels, and high speed steels.

One of the great results of the precise quantitative measurements of hardness is the determination of the relation of the hardness of cutting tools to the work to be machined. We are all aware that the tool must be harder than the material, but how much harder? The scleroscope shows that the tool twice as hard as the work will cut, but for economical cutting the ratio should be three to one, or four to one. Some tools will do two or three times as much work as others, because they are of different hardness. Hence the science of tool-making may be systematized so that only highly efficient tools will be produced.

A matter of great value in assembling machines is to pre-determine the comparative wear of the different parts, and here the scleroscope will enable one to construct each part of a material which possesses the precise degree of hardness to give uniform wear.

The scleroscope is also applicable to determining the carbon content of carbon steels, and by careful work we are able to judge as closely as the average chemical analysis may indicate. This is done by the crystallization method, that is, noting the drop in hardness as the steel is quenched at higher temperatures. In such testing the slightest changes resulting from the addition or subtraction of an ingredient are detected. As the measurements are quantitative, the laboratory work is greatly facilitated.

This is an epoch of wonderful steels, as the most important steps in the manufacture of steels, especially in the quality of hardness, have occurred in the past few years. In fact, the commercial watchword is not only high-speed steels, but higher speed steels, and it is particularly fortunate that we have an instrument which presents an accurate and simple method of measuring their hardness either for scientific or commercial purposes.

The scleroscope will be placed in the laboratory where it will be used by the students in machine tool work. As these students are studying the principles of machine construction, this hardness measuring machine will be of the greatest value to them, in determining the properties of the different metals, and to test accurately the effect of the different heat treatments of steel, which will be of the highest value educationally and practically.

News has been received of the engagement of Miss Ruth Maxwell 1908 to Henry Buechser.

## STRONG ADDRESS ON OBLIGATIONS

**Ex-Governor Utter of Rhode  
Island Speaks at  
Y.M.C.A. Dinner**

### ELECTION OF OFFICERS

**Frank Russell 1911 President for  
Coming Season—Worman and  
Sewell also Speak**

Friday evening a representative body of the students of the Institute gathered for a dinner at the Union. The following men were elected officers during next year: president, Frank Russell 1911; vice-president, John Ahlers 1910; secretary, M. B. Brownlee 1911, and treasurer, R. A. Smead 1910.

After the dinner Mr. L. E. Worman, college secretary of Rhode Island and Massachusetts, spoke on the standing of the Y. M. C. A. throughout the world. What it chiefly stands for, he said, was better men, and what all countries need is better men; therefore, such places as Japan, which fifty years ago was a closed country, now has an increasing number of Associations, and in China, by Imperial decree, Associations will be established all over the empire, though that in itself would not make a good Association. This shows the ability of the Y. M. C. A. to create good men as recognized the world over. But as much as the Y. M. C. A. stands for good men in foreign countries, more so it does here. If we consider all the American colleges we find that the men that enter Association work are men mostly from the fraternities, or the athletic, football and baseball teams, or the college papers.

It is conceded generally that the work of the Y. M. C. A. is most difficult here in Boston. Technology is especially difficult, but this ought only to be an incentive to the men interested to show that students in Tech as well as elsewhere stand for high moral character.

Ex-Governor Utter of Rhode Island gave an excellent and practical speech on how students ought to show their appreciation of what is being done for them both by those sending them to school and those who are giving their time and abilities toward training them to become efficient citizens.

He said that as men grow older they sometimes wonder whether it is what they learn or what they observe that counts most for development. Some of the things he had observed were that two per cent. of all men in active life were college men, and two-thirds of all successful men were college men. This fact shows clearly a college training is linked to success. Now for that chance we are indebted not only to those who may be sacrificing themselves in order that we can go to school, but also those who are sacrificing their opportunities to teach us, and those who founded the institution in which we learn. Though we cannot repay this at all, we can try to balance it by doing for others what these have done for us.

To grow in favor with God and men, you have to take a courageous stand for the principles you are convinced are right, such as total abstinence, or use of profanity. Men will have a higher opinion of you for the stand you take. Finally, he said that the world expected much of college men, and college men generally do much for the people, but how to accomplish the most good is the question. We must not feel that we are accomplished, by any means when we get through school. We must go on with the same kind of work that we have been doing and fitting ourselves for. It is therefore to the students' own advantage that he learn to get most out of life by helping others, and that is precisely the kind of men that the Y. M. C. A. stands ready to help develop.

Mr. J. Sewall, member of the corporation, said a few encouraging words about the Y. M. C. A.

## COURSES I AND XI EASILY WIN RACE

**Second Place is Taken by  
Mechanicals and  
Electricals**

### HOWLAND 1909 FIRST

**Time Made Was Excellent in Spite  
of Bad Going—Thirty-Two  
Men Finish Race**

H. H. Howland won the annual inter-course race last Saturday in the excellent time of 25 minutes 17 seconds. This time was remarkable considering the fact that the whole of the course was covered with mud several inches deep, and in many places the men had to wade through the swamps made by the recent rains. The race was held over the same course as the annual Tech-Harvard race, which begins at Highland Station and ends at the Field. The thirteen different courses of the Institute were divided into three groups. The Courses I and XI were combined under the leadership of Capt. Jacobs; Courses II and VI had chase-captain Eldred for the leader, while the other courses were combined under the lead of ex-capt. Ellis.

The civil and sanitary engineers won the race easily, their men scoring only sixteen points; the mechanical and electricals won second place quite handily with 26 points, while the combined courses had to be content with last place.

J. F. McCarthy set a very fast pace at the start, hoping to kill off some of the new men, but this he failed to do, as the new men proved to be in as good condition for a gruelling race as the cross-country star himself. At the end of the first mile McCarthy was leading by a small margin over Howland 1909, and H. S. Benson 1912, the freshman cross-country captain. At the brook which marks the first mile many men had to take an involuntary bath, as the rain had made it quite a good-sized stream. Soon after passing the mile mark the positions of the leading men changed. Howland taking the lead away from his class-mate. Howland was never headed from this point, although he was closely pressed throughout the race by four or five men. At the pig pens which make the two-mile mark, Howland was leading by a hundred yards, with C. P. Eldred 1911 second. It was at this point that J. N. Stephenson 1909 and E. Jacobs 1910 began to make trouble, they having come up into third and fourth places.

From this point the pace became faster, and developed into a fine race between Howland Jacobs, Eldred, and Stephenson, who finished in the order named. The two freshmen, Benson and H. G. Watkins, and R. D. VanAlstine 1911 had a close and exciting race for the last two prizes, in which the 1912 men proved the victors.

The order of finish of the first twenty-one was as follows:

- 1—Howland 1909. Time 25m 17s.
- 2—Capt E. Jacobs 1910. Time 25m 32s.
- 3—C. P. Eldred 1911. Time 25m 46s.
- 4—J. N. Stephenson 1909. Time 25m 51s.
- 5—H. S. Benson 1912. Time 26m 0s.
- 6—H. G. Watkins 1912. Time 26m 10s.
- 7—R. A. VanAlstine 1911. Time 26m 15s.
- 8—B. C. Huber 1910. Time 26m 40s.

(Continued on page 2.)

## CAI ENDAR

MONDAY, MARCH 5.

- 4:15—Mandolin Club Rehearsal.
- 4:15—Show Chorus.
- 8:00—Gym Meet at Gym.
- 8:15—Society of Arts.

TUESDAY, MARCH 6.

- 4:15—Glee Club Rehearsal.
- 4:15—Show Principals.

# THE TECH

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## Editorial Staff.

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Monday, April 5, 1909

Congratulations, Mr. Francis! Our genial Show coach is the proud possessor of a little daughter, born last Friday. The following self-explanatory message was flashed over the wires to Mr. Francis Friday evening: "Your daughter wishes to see her papa."

A poster announcing the coming of an event that has passed is surely more objectionable than an expression of someone's desire to purchase a book or sell a pen, even though the latter has been displayed a few days over two weeks.

If the bulletin boards are to be of the greatest value, they must be kept free of dead and useless material, and it is up to the bulletin board committee to see that this is done.

From the action of the athletic association it is evident that the undergraduates do not want a baseball team that will not be a credit to Technology. Whether Tech will ever have a baseball team depends to a large degree on the interest which is taken in the sport by the class teams. If the freshmen and sophomores turn out some good material this spring the chances for a varsity nine next year will be greatly improved.

## COMMUNICATIONS

The Editor of The Tech:—

Dear Sir:—I have sometimes wondered if the fellows who, by sacrifice on their part or on account of their parents, pay into the Institute the highest tuition fee charged by American technical schools, realize how considerable an item in the Institute income is spent for periodicals and how little the students contributing to this income use the periodical privileges they are paying for. In the General Library the picture magazines are almost read to tatters,—"read" is hardly the word,—and the more substantial and expensive magazines even remain uncut. No one can intelligently, I think, ignore the pleasure of the better illustrated monthlies. The wood engraving of Timothy Cole in the Century is work of the finest excellence; and the many color reproductions are interesting, although sometimes painful attempts to reawaken in our dull eyes the atrophied sense of all that world of wonder and beauty. But the serious periodicals are disproportionately ignored. The Revue des Deux Mondes, for instance, had become

for me the most convenient source of authoritative treatment of European topics; in it, for example, were to be found the best discussions of the Balkan crisis, or the last international copy congress. But it was so little used that the library has discontinued it; and we who used it are now obliged to penetrate into the viscous air of the Public Library magazine room,—an atmosphere to which our own reading-room has incompletely acclimated us. It is of course not surprising that very busy students should make small use of a French magazine treating general topics; but isn't it discredibly remarkable that week after week, from a registration of more than 1,400, none at all should have troubled even to cut the leaves of the Revue Scientifique? How much more so in the case of Science, an American weekly, printing material at once authoritative and of general scientific interest, contributed very frequently by our own teachers. If the American Outlook is worth reading to destruction, is not the London Spectator worth a considerable audience?

We certainly owe to the library authorities much more careful attention to the notice: "After reading, please return periodicals to their places on the shelves."

Sincerely,  
H. L. SEAVER.

## PROF. DEWEY HONORED

Prof. Davis R. Dewey of the Institute faculty has been appointed a trustee of the Massachusetts Agricultural College to succeed the late Carroll D. Wright.

Prof. Dewey is a well known educator and has devoted a good portion of his life to the study of economics and statistics and is in charge of that department at the Institute.

## MR. DIKE TO LECTURE

Will Give a Course This Summer on Gothic Architecture

Among the Summer courses for this year is the new course on "The Origin and Development of Gothic Architecture," to be given by Mr. Dike. Unlike most of the Institute Summer courses, this is not intended exclusively for present or prospective students, and, indeed, it is believed the subject will attract many who have no thought of studying other subjects at the Institute. It will be particularly interesting to the teachers of French or of art, for its purpose is to give a clear understanding of the influences which were at work in the growth of the splendid art of the twelfth and thirteenth centuries, and to trace the development of Gothic Architecture in France to its period of perfection in the third quarter of the thirteenth century. The course will consist of ten lectures, fully illustrated with photographs and lantern-slides. They will begin the 7th of July.

## COURSES I AND XI

(Continued from page 1.)

9—J. F. McCarthy 1909. Time 26m 50s.  
10—C. H. Morrill 1912. Time 26m 52s.  
11—E. M. Potter 1910. Time 26m 56s.  
12—K. Cartwright 1912. Time 27m 5s.  
13—R. M. Ferry 1912. Time 27m 19s.  
14—L. C. Cooley 1911. Time 27m 33s.  
15—R. Ellis 1909. Time 27m 40s.  
16—E. W. DeWitt 1911. Time 28m 10s.  
17—Foster Russell 1911. Time 28m 15s.  
18—J. Ahlers 1910. Time 28m 16s.  
19—H. D. Billings 1910. Time 28m 31s.  
20—G. H. Magee 1910. Time 28m 46s.  
21—J. D. MacKenzie 1911. Time 29m 13s.  
Score:—Courses I and XI 16; Courses II and XI 26; other Courses 43.

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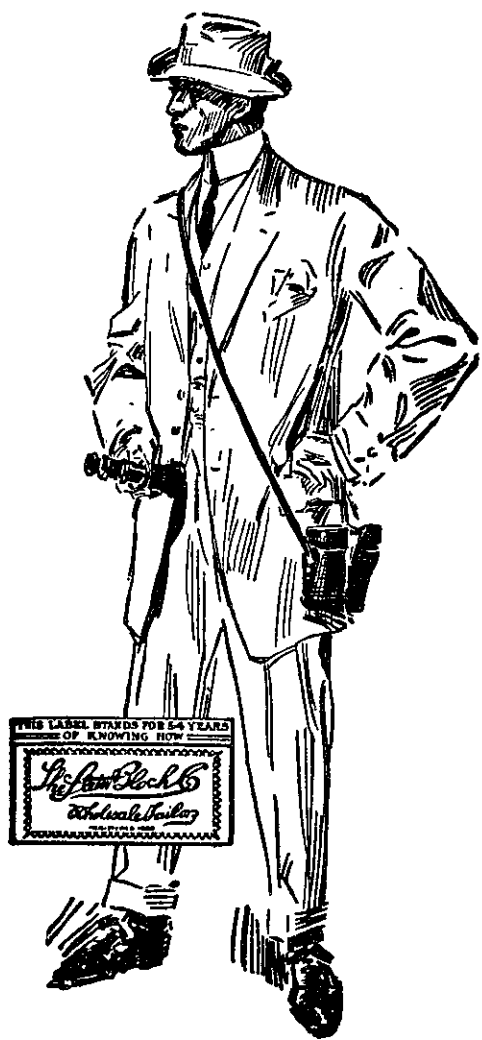
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The Review aims to develop closer relations among Institute men and to stimulate their interest in the work of the College. It is in no sense an engineering magazine, but deals broadly with the problems of Technological Education and the responsibilities of the professional man.

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## SOCIETY OF ARTS

Professor G. M. Hale Will Speak  
at Last Meeting

At the regular meeting of the Society of Arts, which will be held in Huntington Hall tonight at 8, Prof. Geo. E. Hale, director of the Carnegie solar observatory at Mt. Wilson, California, will address the Society.

Prof. Hale graduated from the Institute in 1890, and has since become very prominent in astronomical work. The observatory at Mt. Wilson is very completely equipped. A five-foot reflecting telescope of great efficiency and vertical tower telescope of great focal length, together with unusually favorably atmospheric conditions prevalent at Mt. Wilson, have given Prof. Hale and his staff the finest possible opportunity for solar observations. The latter throw much light on the nature of sun spots and their relation to magnetic disturbances upon the earth. The sun is being studied primarily as a typical star; and the results obtained constitute a contribution to the fundamental question of cosmic evolution.

Prof. Hale has not announced his subject, but it will be along astronomical lines. The Society cordially invites everyone interested to attend this meeting.

## SENIORS ATTENTION

Orders for the Portfolio must be in before April 15. These must be made by depositing \$3.00 with a member of the committee. On account of the expense attached to the printing of the book, only that number for which orders are given by the members of the class, will be ordered from the printer. As the price for printing 200 or 250 copies is not very different from the total issue, the difference in that number of orders might be enough to reduce the price from \$6.00 to \$5.00 for each copy. Therefore, all seniors who are desirous of having books will please leave their orders with the committee as soon as possible.

## BULLETIN FOR M.E. DEPT.

A new bulletin has just been placed at the information bureau which should prove of much interest to those taking Mechanical Engineering. The bulletin is an extra number, devoted entirely to the mechanical engineering course.

It contains sixteen cuts of the various departments, a complete description of the course, and inside the back cover a plan of the laboratories. It also contains a complete list of the graduates from the course during the past six years, and a table showing the occupations of the graduates from 1868 to 1907.

The next meeting of the Technology Club of Philadelphia will be held on Saturday evening, April 10th, at the Southern Club, 1722 Walnut Street. An old-fashioned Southern dinner (fried chicken, waffles, etc.) will be served at 7.00 o'clock at \$1.00 a cover.

Mr. F. A. Hunnewell '97, Chief Draftsman of the U. S. Naval Constructor's Office, New York Shipbuilding Co., will present a paper on "A Trial Trip of a Battleship."

## FROM OTHER COLLEGES

The student regiment of the University of Iowa will be in spring camp from May 29 to June 1.

The staffs of the Daily Princetonian and the Yale News will play ball at Princeton on May 7.

California will give gold medals to the winners of firsts in the interclass meet.

Six students of the University of Missouri were suspended for cutting drill on Washington's Birthday.

The edition of the Purdue Exponent for March 28, published by the girls, contained a column on how men should dress.

A student branch of the American Society of Mechanical Engineers is to be established at Purdue University, Indiana.

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## TAKE NOTICE

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Bent & Bush

### LUNCH ROOMS —

Copley Lunch  
Hewitt's Lunch

### PRINTERS —

George H. Ellis Co.  
Old Colony Press

### PHOTOGRAPHER —

Marceau

### SHOES —

McMorrow  
Henry Siegel Co.  
H. H. Tuttle Co.

### SMOKERS SUPPLIES —

The Cage  
Cobb, Bates & Yerxa  
Fatima Cigarettes

### STUDENT SUPPLIES —

MacLachlan  
Higgins Ink  
J. N. Southwell  
Faber Pencils  
Samuel Ward Co.  
Old Corner Bookstore

### TAILORS —

Henry Siegel Co.  
Morse & Henderson  
Smullen & Co.  
C. F. Patten & Co.  
A. Shuman & Co.

### TYPEWRITERS —

General Typewriter Ex.

## STATIONERY



FRATERNITY STATIONERY  
ENGRAVED INVITATIONS  
RECEPTION AND VISITING CARDS  
BANQUET MENUS  
COATS OF ARMS, CRESTS & MONOGRAMS  
STUDENT'S SUPPLIES

**WARD'S** SAMUEL WARD CO.  
51-63 Franklin St., BOSTON

### BROOKLINE H. S. CLUB

Last Saturday evening the regular meeting of the Brookline High School Club was held at the home of W. J. O'Hearn 1910, the newly elected captain of next year's hockey team.

A. P. Truette 1910, the principal speaker of the evening, gave a humorous talk on Maine camp life, based on ten years' experience at his own camp at Greenville, Maine.

G. C. Kenney ex-1911, read one of the best "logs" that has been written this year. The "log" is an informal record of the club's social doings, exclusive of the minutes, and is written by the several members in rotation. After refreshments and the regular fun, the club broke up at 11:30.

(Continued from page 1.)

Things are rushing along pretty fast now with the Show. The applications came in thick and fast, 650 being received. This number is a trifle more than the number received last year.

The attempt made this year to give all classes fairer chances to get seats seems to be successful with some exceptions. It is a little hard to tell just yet how it will work out, but it is safe to say that very few men will use seats secured from others who will not be found out, and all of these men will be blacklisted.

The poster sale this year was unprecedented, and the first lot of 500 has been practically sold out. The success of the large poster was such that it has been decided to get out small cards with a reproduction of the poster in colors. These will be a souvenir of Junior Week and a convenient reminder to send to a guest. Last year small reproductions of the poster were made, although not for sale, and the men who saw them were so much taken with them that a large number asked to have souvenir postals this year. These cards will be on sale Wednesday at the Cage where The Tech is sold at five cents each.

### NOTICES

M. I. T. A. A.—Meeting in 11 Pierce Wednesday at 4.15.

A fountain pen has been found and left at the Bursar's office. Owner may have same by proving property. A4

### CLASSIFIED ADS

Advertisements under this head are inserted at the rate of five cents a line of six words, payable in advance, and copy should be handed to the business manager the morning before publication day.

TO RENT.—Small steam heated room with gas on upper floor, \$1.50 per week. Apply at Suite two, 163 Huntington Ave. J 6

FOUND.—A small pocket knife in leather case. Owner please apply to boy selling The Tech at the Union. A9.

### The Copley Florist

N. Fishelson

14 and 18 Huntington Avenue, Boston

Pierce Building

Floral Designs for all Occasions

Tel. 21671 Back

DISCOUNT TO TECH MEN

## GONE!

The first lot of posters is almost gone GET YOURS NOW!

The postal card souvenirs of Junior Week will be out Wednesday, 5 cents.

## STONE & WEBSTER ENGINEERING CORPORATION

### CONSTRUCTING ENGINEERS

DWIGHT P. ROBINSON.....President and General Manager  
HOWARD L. ROGERS.....Vice-President and Treasurer  
GEORGE O. MUHLFELD.....Construction Manager  
WILLIAM N. PATTEN.....Engineering Manager  
THORNDIKE N. ENDICOTT.....Purchasing Agent

147 MILK STREET

BOSTON, MASSACHUSETTS

MAKER TO WEARER  
THE  
**SPHINX**  
\$2.00 HAT  
412 WASHINGTON ST. BOSTON  
SPRING STYLES

## BURT'S MEN'S SHOP

Exclusive Haberdasher

43 BOYLSTON STREET, BOSTON

"ALL WORK AND NO PLAY MAKES JACK A DULL BOY"

## "TECH BOWLING HEADQUARTERS"

TRINITY COURT BOWLING ALLEYS

Established 1898 175 Dartmouth Street Opp. Pierce Bldg.

Two minutes walk from all Tech Buildings. Unexcelled facilities for ladies and the most fastidious bowler to enjoy this fascinating and healthy pastime. Alleys reserved and screened for private parties. Come in and enjoy a little fun and exercise between periods.

INFALLIBLE CORRECTNESS OF GRADING.

UNEQUALLED FOR PURITY, SMOOTHNESS, DURABILITY.

**"CASTELL"**

DRAWING PENCILS IN 16 DEGREES. FROM 6B TO 8H.

THE FINEST IN EXISTENCE.

W. FABER, 51 DICKERSON ST., NEWARK, N. J.

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Headquarters for all

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*The Apollo*

"The Chocolates that are different."

ON SALE AT THE CAGE

## Tech Drug Store

Chemicals, Reagents and Acids  
AT SPECIAL PRICES

Sachets, Perfumes, Toilet Articles

New Tech Seal Cigarettes

All Popular Brands of Cigars

## T. METCALF CO.

COPLEY SQUARE  
39 TREMONT STREET